

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
23 December 2004 (23.12.2004)

PCT

(10) International Publication Number
WO 2004/112277 A1

(51) International Patent Classification⁷: **H04B 7/005**

(21) International Application Number:
PCT/EP2004/051093

(22) International Filing Date: 11 June 2004 (11.06.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
03013571.9 13 June 2003 (13.06.2003) EP

(71) Applicant (for all designated States except US):
SIEMENS AKTIENGESELLSCHAFT [DE/DE];
Wittelsbacherplatz 2, 80333 München (DE).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **ALI-HACKL**,
Markus [DE/DE]; Nimrodstr.33a, 82110 Germering
(DE). **BREUER**, Volker [DE/DE]; Schwalbenring
20, 16727 Bützow (DE). **CHARPENTIER**, Frederic

[FR/DE]; Rhönestr. 44, c/o Stelo, 60316 Frankfurt/Main
(DE). **FRITZE**, Stefan [DE/DE]; Zunftstr. 39B, 85540
Haar (DE).

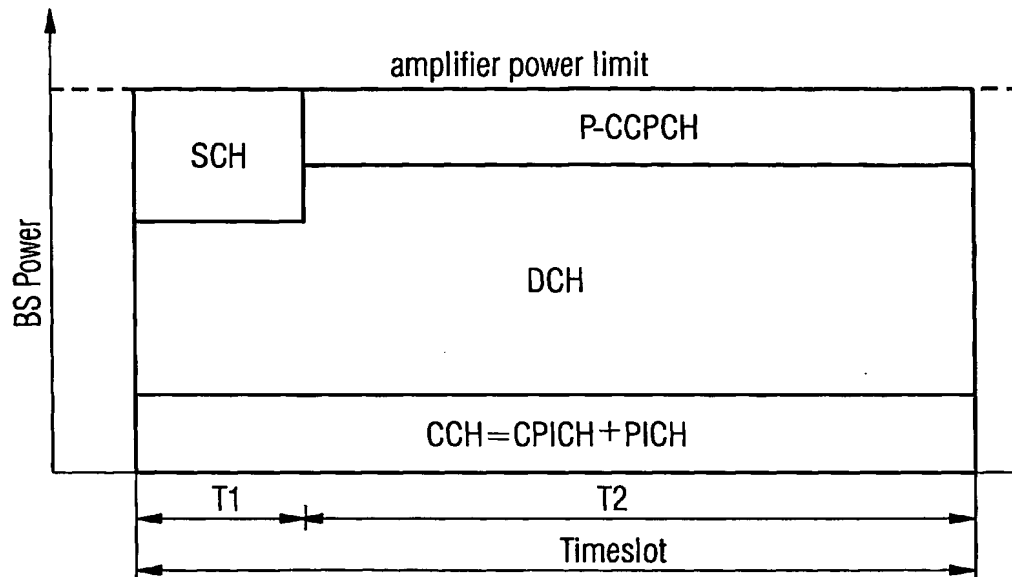
(74) Common Representative: **SIEMENS AKTIENGE-
SELLSCHAFT**; Postfach 22 16 34, 80506 München
(DE).

(81) Designated States (unless otherwise indicated, for every
kind of national protection available): AE, AG, AL, AM,
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,
TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM,
ZW.

(84) Designated States (unless otherwise indicated, for every
kind of regional protection available): ARIPO (BW, GH,
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,
ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),

[Continued on next page]

(54) Title: POWER CONTROL FOR A MOBILE RADIO COMMUNICATION SYSTEM



(57) Abstract: A communications system is described, the communications system comprising - a plurality of common channels (P-CCPCH, CCH) including a primary common control physical channel (P-CCPCH), - a plurality of dedicated channels (DCH) a synchronisation channel (SCH), - the primary common control physical channel (P-CCPCH) and the synchronisation channel (SCH) being transmitted time multiplexed, and - the sum transmit power of dedicated channels (DCH) being reduced during the transmission of the synchronisation channel (SCH) in order to keep the total output power at the base station power amplifier below a maximum power limit.



European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

Published:

— *with international search report*